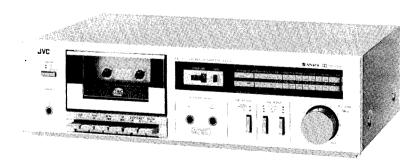
JVC



MODEL
KD-D2A/B/C/E/J/U

STEREO CASSETTE DECK



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Specification

| Specificat | tion | | |
|--|---|---------------------------------|--|
| Type Track system Tape speed Frequency response | : Stereo cassette deck : 4-track, 2-channel : 1-7/8 inch/sec (4.8 cm/sec) : (0 dB recording) | Input terminals Mic jack x 2 | : Max. sensitivity; 0.2 mV (-72 dBs) Matching impedance; 600 Ω $-$ 10 k Ω |
| | Metal tape *1; 40 – 11,000 Hz (± 3 dB) SA/Chrome tape *2; 40 – 8,000 Hz (± 3 dB) | Input jack x 2 Output terminals | : Min. input level; 80 mV ($-20~{\rm dBs}$) Input impedance; 100 k Ω |
| | SF/Normal tape *3; 40 - 8,000 Hz (± 3 dB) | Output jack x 2 | : Output level; 300 mV Output impedance; 5 k Ω |
| | (-20 dB recording) Metal tape *1; 40 – 15,000 Hz (± 3 dB) | Phones jack x 1 | : Output level; 0.3 mW (8 Ω) Matching impedance; 8 Ω - 1 k Ω |
| | SA/Chrome tape *2; 40 — 15,000 Hz (± 3 dB) SF/Normal tape *3; 40 — 14,000 Hz (± 3 dB) | DIN socket | : Min. input level; $0.1 \ \text{mV/k}\Omega \\ \text{Input impedance; 10 k}\Omega \\ \text{Output level; 300 mV} \\ \text{Output impedance; 5 k}\Omega$ |
| Surpasses DIN 4 | | | Matching impedance; |
| | C ME or Equivalent K SA or Equivalent XELL UD or Equivalent | Power requirement | 50 k Ω or more : AC 240 V 50 Hz(KD-D2A) AC 240/220/120 V, 50/60 Hz |
| S/N ratio | : 58 dB (S=1 kHz, K3=3%, N=A-Weight, Metal tape) The S/N is improved by 5 dB at 1 kHz and by | Power consumption | (KD-D2B/C/E/J) AC 240/220/120/100 V 50/60 Hz (KD-D2U) : With power on 10 W |
| Wow and flutter | 10 dB above 5 kHz with ANRS/DOLBY B NR on. : 0.075 % (WRMS), 0.2 %(DIN 45 500) | Dimensions | With power switch off 0.8 W : 16-1/2" (420 mm) W 4-3/4" (120 mm)H |
| Crosstalk Harmonic distortion | : 65 dB (1 kHz) : K3; 0.5%, THD; 1.0% | Weight | 10-3/8" (265 mm) D : 8.4 lbs (3.8 kg) |
| Bias Erasure | (metal tape, 1 kHz 0 dB) : AC bias : AC erasure | Accessories | : Pin cord (KD-D2A/C/J/U) 2 Din cord (KD-D2B/E) 1 Head cleaning stick 2 |
| Heads | : METAPERM head for recording/playback, 2-gap ferrite head for erasure | Design and specificat notice. | ions are subject to change without |
| Motor | : Electronic governed DC motor | | |
| Fast forward time Rewind time Semiconductors | : 100 sec. with C-60 cassette : 100 sec. with C-60 cassette : 6 ICs, 14 transistors, 6 diodes, 16 LEDs | | |

Features

- ANRS/Dolby* B NR greatly reduces tape hiss noise.
- METAPERM record/playback head and 2-gap ferrite erase head compatible with all types of tapes including the new Metal tape.
- 2-color LED peak level indicator

- Full auto-stop mechanism
- Geared and oil-damped cassette door
- Automatic input selector
- * Dolby and Dolbyized are trademarks of Dolby Laboratories.

Controls and Connections

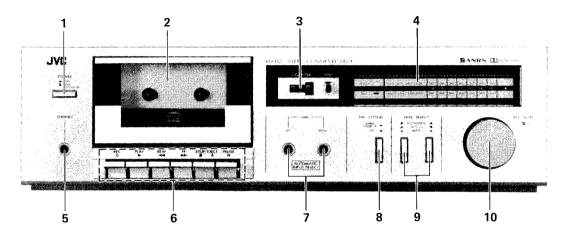


Fig. 1

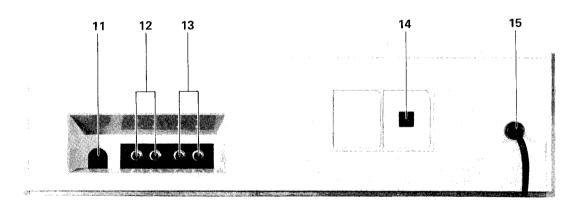


Fig. 2

- 1. POWER switch
- 2. Cassette door
- 3. Tape counter/Counter reset button
- 4. PEAK LEVEL indicators
- 5. PHONES jack
- 6. Cassette operation buttons
 - O REC (Record) button
 - ▶ PLAY button
 - ■■ REW (Rewind) button
 - ▶▶ FF (Fast Forward) button
 - STOP/≜ EJECT button
 - II PAUSE button
- 7. MIC (Microphone) jacks

- 8. NR SYSTEM switch (OFF $-\frac{ANRS}{Dolby B}$)
- 9. TAPE SELECT switches

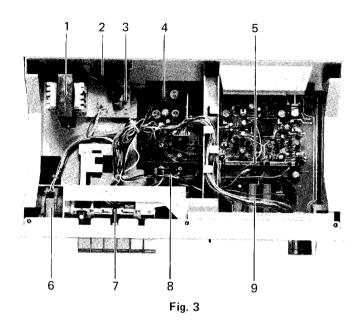
$$(\frac{\mathrm{SF}}{\mathrm{NORM}} - \frac{\mathrm{SA}}{\mathrm{CrO_2}} - \mathrm{METAL})$$

10. REC LEVEL controls

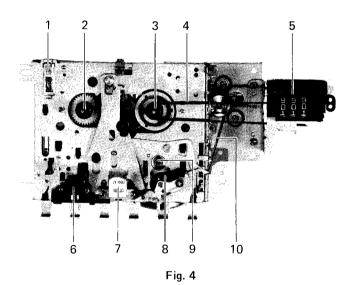
$$(\frac{\mathsf{Forward\ knob}}{\mathsf{Rearward\ knob}} - \mathsf{Left\ channel})$$

- 11. REC/PLAY (DIN) socket
- 12. LINE IN (REC) terminals
- 13. LINE OUT (PLAY) terminals
- 14. Voltage select switch
- 15. Power cord

Main Parts Location

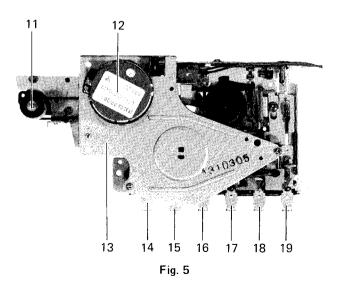


- 1. Power transformer
- 2. Voltage select switch
- 3. Power supply P.W.B. ass'y
- 4. Main P.W.B. ass'y
- 5. Recording/playback switch
- 6. Power switch
- 7. Mechanical assembly
- 8. Motor
- 9. Select switches





- 1. Recording lever
- 2. Supply reel disk
- 3. Take up reel disk
- 4. Counter belt
- 5. Tape counter
- 6. Erase head
- 7. REC/PB head
- 8. Pinch roller arm ass'y
- 9. Capstan shaft
- 10. Capstan belt



- 11. Tape counter pulley
- 12. Motor
- 13. Motor & Flywheel bracket
- 14. Pause bar ass'y
- 15. Stop/eject bar ass'y
- 16. FF bar ass'y
- 17. REW bar ass'y
- 18. Play bar ass'y
- 19. Rec bar ass'y

Removal of the main parts

Observe care in handling the parts since the parts are small in size and the distance between them are short due to a deck design aimed mainly at compactness and high performance.

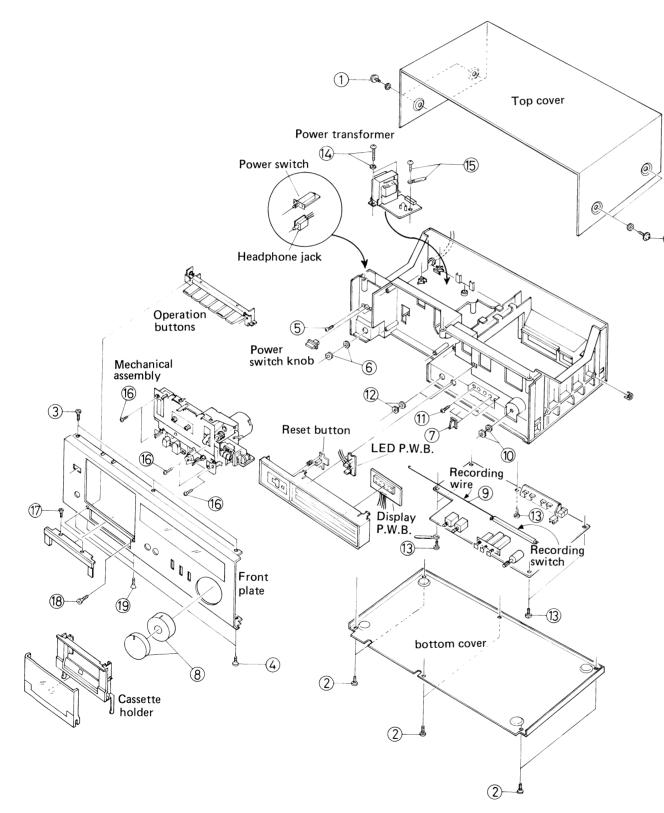


Fig. 6

ENCLOSURE ASSEMBLY PARTS

1. Cassette door

Push the EJECT button to open the cassette door. Slide off the cassette door upwards to unlock its pawls off both sides.

2. Top cover

Remove 4 screws (1) (left and right ... 2 screws on each).

3. Bottom cover

Remove 6 screws (2)

4. Front plate assembly

- 1) Remove 5 screws (3 screws (3) on upper side and 2 screws (4) on bottom side).
- 2) Remove 3 screws fastening the button spring.

ELECTRICAL PARTS

When removing wire clamp (QHX2075-001), cut off it, and when clamping wires, use a new parts.

1. Power switch P.W.B. ass'y

- 1) Pull off the power switch knob forward.
- 2) Remove 2 screws (5) fastening the power switch.

2. Headphone jack

Remove a nut and a washer 6 fastening the headphone iack.

[Steps **3–5** are after removing the escutcheon ass'y - remove 4 pawls -]

3. Display P.W.B. ass'y (Multi-peak level indicators)

Remove 4 pawls holding the escutcheon.

4. LED indicators P.W.B. (POWER, REC)

Remove 2 pawls holding the escutcheon.

5. Counter reset button

Remove a pawl holding the reset button with the spring.

6. Main amplifier P.W.B. ass'y

- 1) Pull off 3 select knobs (7) forward.
- 2) Pull off REC LEVEL knobs (8) (R & L) forward.
- 3) Remove the recording wire 9 from the recording switch
- 4) Remove a nut and a washer 10 fastening the recording level VR shaft.
- 5) Remove 2 screws (11) fastening the select switches.
- 6) Remove 2 nuts and 2 washers (2) fastening microphone jacks.
- 7) Remove 5 screws (13) fastening the main amplifier P.W.B. ass'y.

7. Power supply P.W.B. ass'y

- 1) Remove 2 screws and 2 washers (14) fastening the power transformer.
- 2) Remove a screw and a wire clamp (15) fastening the power supply P.W.B.

MECHANICAL ASSEMBLY

Remove 5 screws (6) fastening the mechanical ass'y on the front side.

MECHA. OPERATION BUTTONS ASS'Y

- 1. Remove 2 screws (7) fastening the button escutcheon.
- 2. Remove 2 screws (18) fastening the button bracket on the front panel (front side).
- 3. Remove 2 screws 19 fastening the button bracket on the front panel (bottom side).

MECHANICAL PARTS (Fig. 9)

1. REC/PB head

Remove a screw 1.

Work loose a screw 2 for adjustment.

2. Erase head

Remove a screw 3.

Remove a screw (4) for adjustment.

3. Pinch roller arm ass'y

Remove an E-ring (5) holding its assembly. Pull it off from the shaft.

4. Holder plate (Fig. 7)

Remove 4 screws fastening the holder plate.

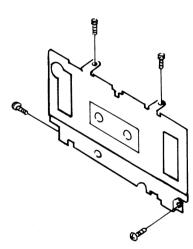


Fig. 7

5. Supply reel disc ass'y

Pull out the reel disc stopper 6 and remove its disc from the shaft.

6. Take-up reel disc

Pull out the reel disc stopper 7 and remove the counter belt, pull out its disc from the shaft.

Note: 1) Remove the reel disc stoppers with a piece of sheet metal inserted between the reel disc and stopper, when assembling the reel disc, the stopper needs a new parts (the stopper cannot be used again).

2) Be careful not to stain the counter belt.

7. Motor

- 1) Remove the main belt and RF belt.
- 2) Remove ② screws A .
- 3) Slide off the motor in the direction of the arrow mark (C). (Screw (B) is no removed)

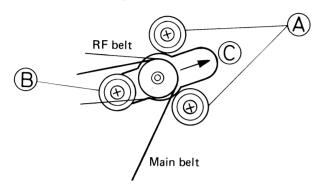
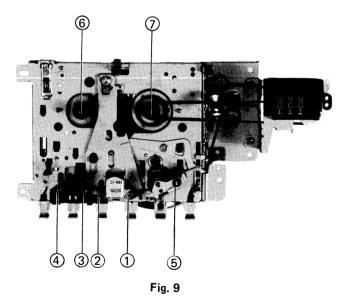


Fig. 8

2) Remove 3 screws and 3 rubbers fastening the motor.

8. Flywheel assembly

- 1) Remove 4 screws fastening the flywheel bracket (with the switch and counter assembly).
- 2) Remove the main belt.
- 3) Pull off the flywheel to rear side. (When replacing the flywheel, be sure to employ the washer for oil cutting.)



Block Diagram

Recording System

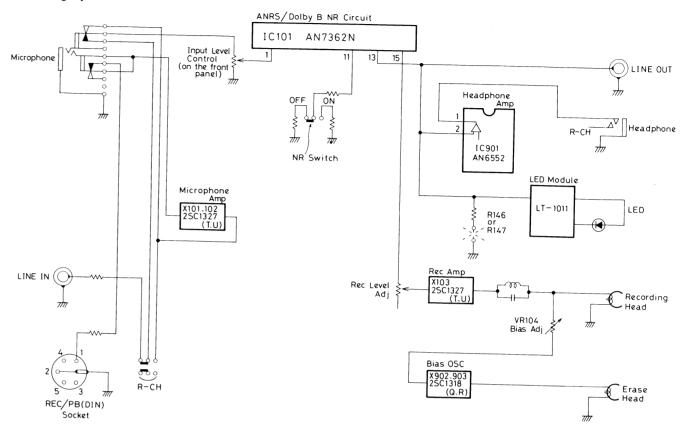


Fig. 10

Playback System

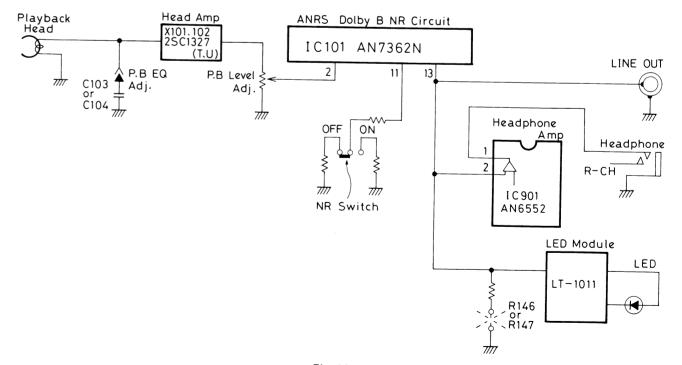
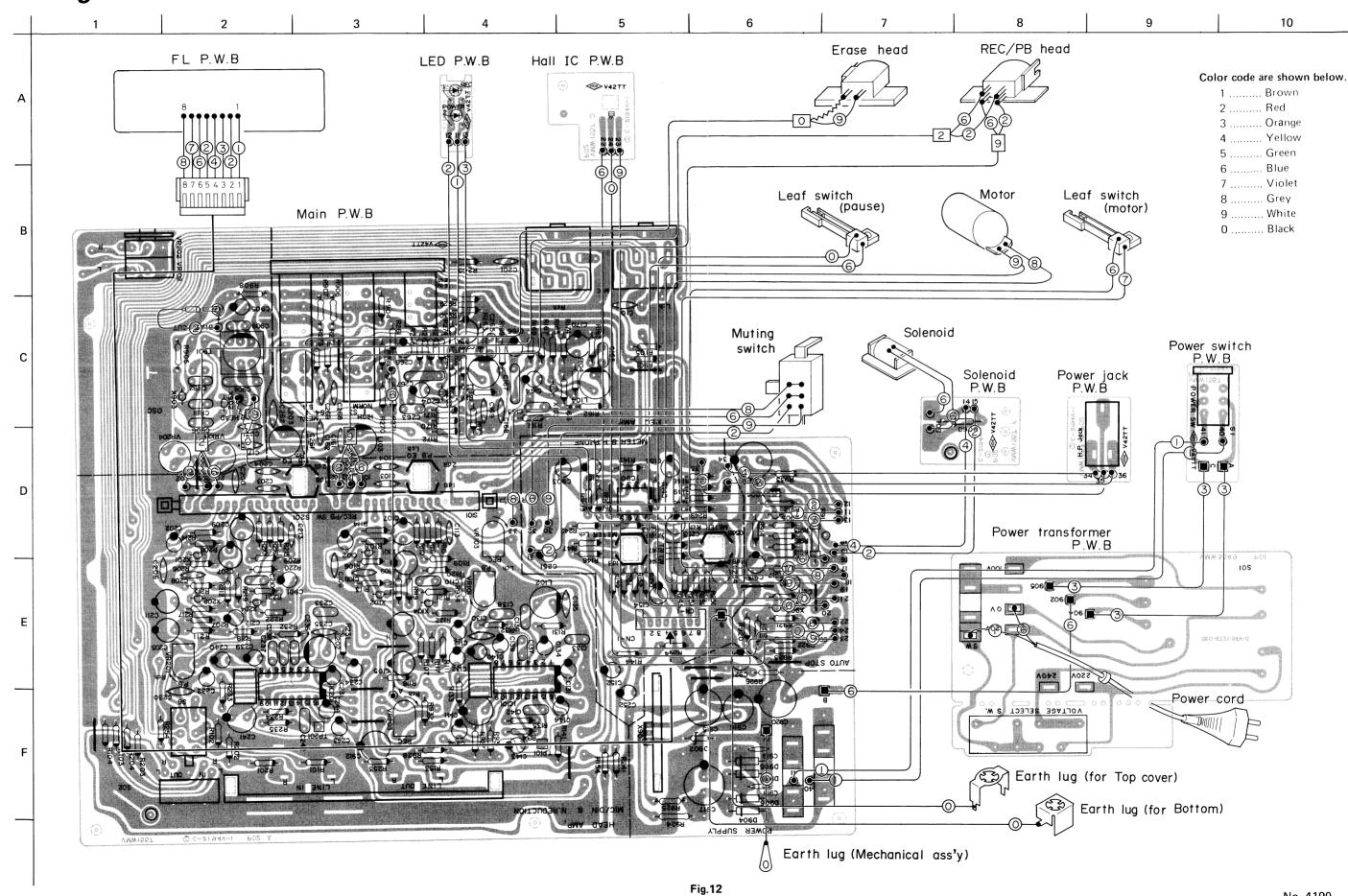


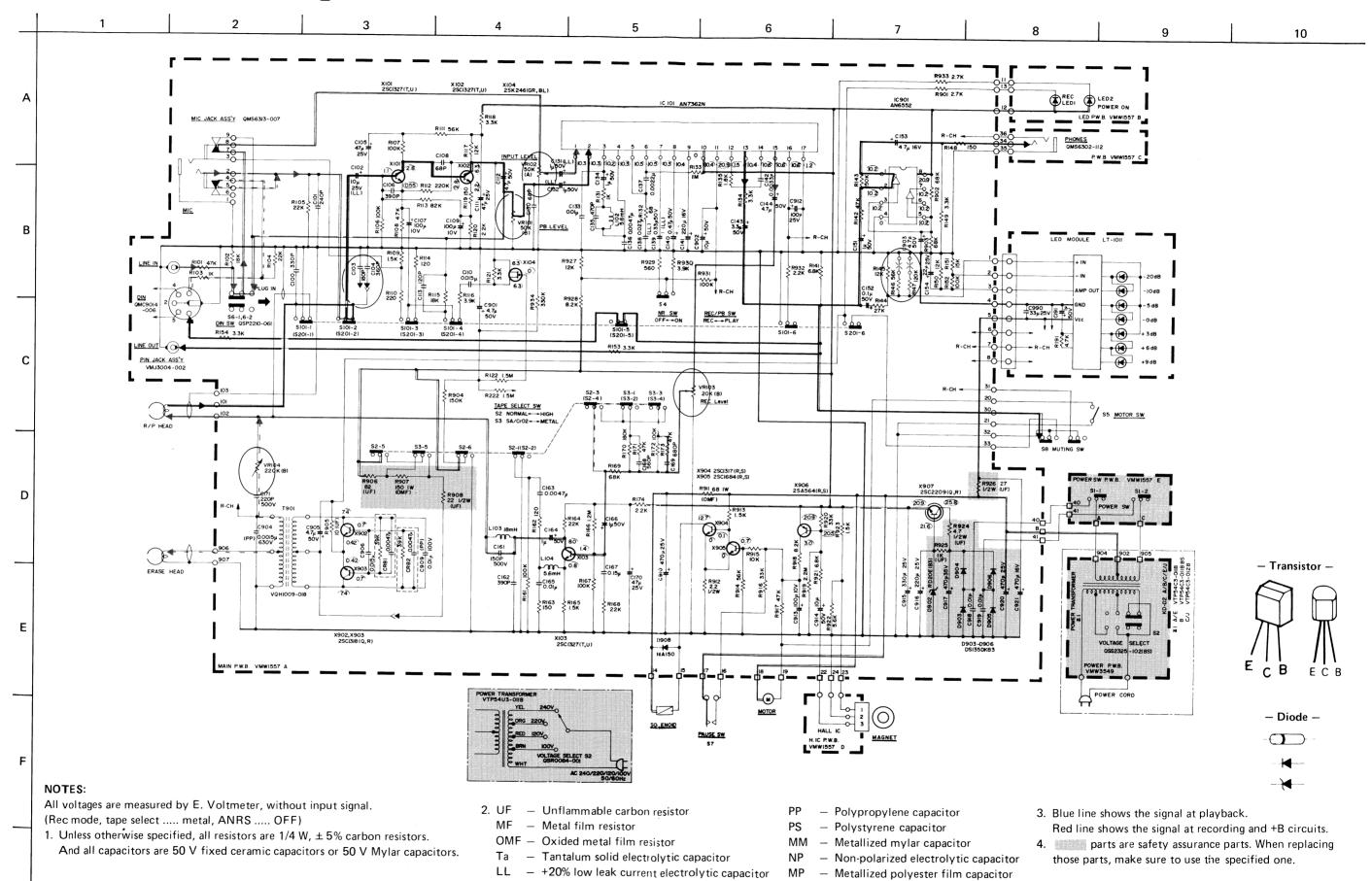
Fig. 11

No. 4199

Wiring Connection



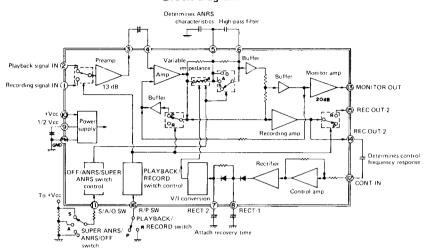
Standard Schematic Diagram of KD-D2



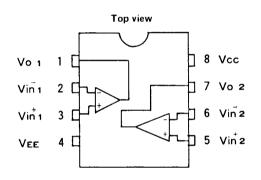
Integrant Circuit

- AN7362 -

Block diagram



– AN6552 –



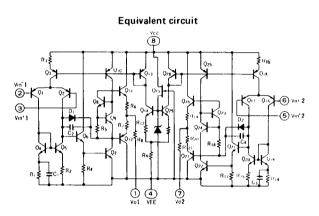


Fig. 14

Main Adjustments

[I] Equipment and measuring instruments used for adjustment

1. Electrical adjustment

- 1) Electronic voltmeter
- 2) Audio frequency oscillator (range: 50–20 kHz and output 0 dB with impedance 600 $\Omega)$
- 3) Attenuator
- 4) Standard tapes for REC/PB

 $\begin{array}{l} \text{Maxell UD - SF tape } \dots \\ \text{TDK SA - SA tape } \dots \\ \text{SCOTCH METAFINE - Metal tape} \end{array} \right\} - \text{or equivalent}$

5) Reference tapes for playback (JVC Test Tape) VTT-658 (for head azimuth adj.) VTT-656 (for motor speed, wow flutter adj.) VTT-664 (for Reference level 1 kHz)

VTT-675N (for playback frequency response)

6) Resistor 600 Ω (for attenuator matching)

2. Mechanical adjustment

- 1) Torque testing cassette gauge, CTG-N.
- 2) Blank tape (C-120) for tape running checker.

[II] Mechanical adjustment

(Adjust the mechanism or confirm that it is in normal operating condition prior to the adjustment of the electrical circuit.)

| Item | Adjustment | Adjusting point | Standard value | Remarks | | | | | |
|---|---|---|-----------------------|---|--|--|--|--|--|
| Adjusting record/playback head position | Connect an electronic voltmeter to the LINE OUT terminals. Play back the VTT-658 test tape. Adjust the head angle with the screw (A) until the reading of the electronic voltmeter becomes maximum for both channels. After adjusting, set the screw with screw bond. | Screw A | Maximum | If the head is worn, disconnected or exceedingly magnetized so as not to provide the necessary characteristics, replace it with a new one. After replacement, the head position adjustment as well as the playback level adjustment, the bias current adjustment and the recording level adjustment are all necessary. If the output difference between the left and right channels exceeds 3 — 4 dB, the head is defective. Replace it with a new one. | | | | | |
| Adjustment erase head height | Turn the adjusting screw for aligning the erase head until it stops. Then, turn the screw in the reverse direction by 180° (a ½ revolution). Employ a special cassette (C-120) from which parts of the casing, where the erase head, record/playback head and capstan engage, has been cut away. Perform tape transport with the cassette tape. Adjust the screw C until the tape runs in the center of the erase head tape guide. | Screw © | Cc | Be sure to perform this adjustment after replacing the erase head. Direct Incorrect Tape guide Tape Tape Tape guide Tape Tape | | | | | |
| Adjusting motor speed | Connect a speed meter (an electronic counter) to the LINE OUT terminals. Play back the VTT-656 test tape. Adjust the semi-fixed resistor in the motor until the reading of the speed meter is 3000 Hz. | Semi- fixed resistor in the motor | 3000 Hz | If the speed meter functions as a wow and flutter meter, also, connect the deck to the INPUT terminals of the meter. | | | | | |
| Checking play- back torque | Employ a torque testing cassette tape for the checking, or remove the cas- sette cover and use a torque gauge. | | 40-70 gr-cm | If the standard torque is not obtained, replace the take-up disc assembly. | | | | | |
| Checking fast forward torque | Measure the torque in the fast forward mode in the same manner as in the above. | | More than 80 gr-cm | If the standard torque is not obtained, perform the following. 1. Clean the capstan belt, the idler circumference, the motor pulley, the take-up reel disc circumference, the flywheel circumference, etc. 2. Replace the belt and idler. | | | | | |
| Checking rewind torque | Measure the torque in the rewind mode in the same manner as in the above. | | More than 80 gr-cm | If the standard torque is not obtained, clean the capstan belt, idler, motor pulley, flywheel circumference, rewinding idler circumference, left reel disc circumference, etc. | | | | | |
| Checking wow and flutter | Connect a wow and flutter meter to LINE OUT terminals. Play back the VTT-656 test tape. Check to see if the reading of the meter is within 0.15% (CCIR WTD) | | | If the reading becomes moving value even if conforming to the standard, a re-claim may be raised. Repairs are necessary. | | | | | |

[III] Electrical adjustments location

Main Amp. P.W.Board assembly (Top view)

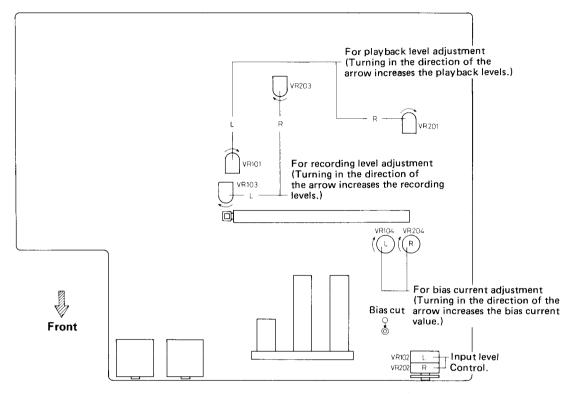


Fig. 15

[IV] Electrical circuit adjustment procedure

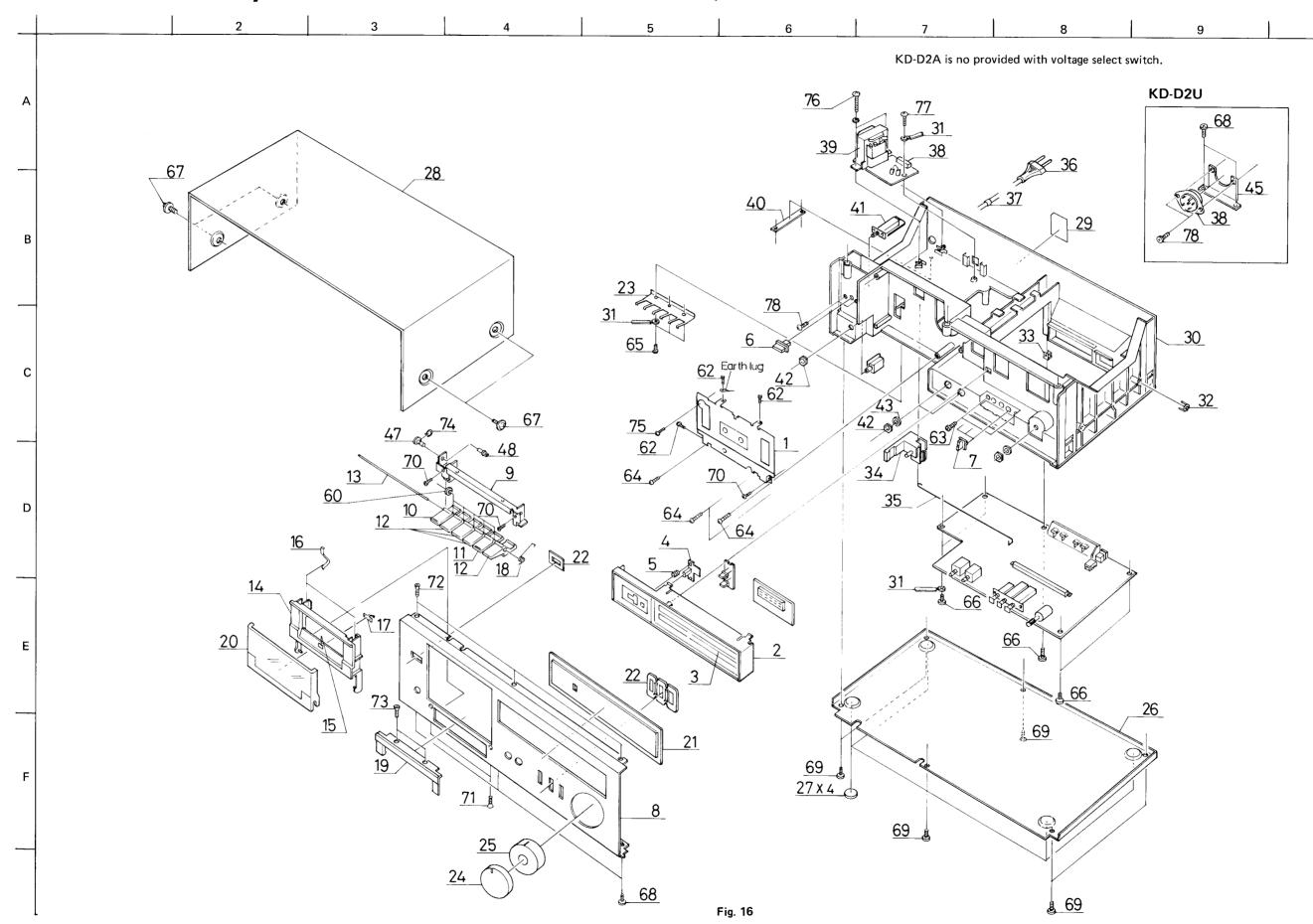
In the steps marked by an asterisk (*), adjustment should be performed, however, only checking is sufficient with steps other than those.

Adjustment should be performed in the order of steps 1, 2, 3, Perform this adjustment with the NR SYSTEM switch set to OFF.

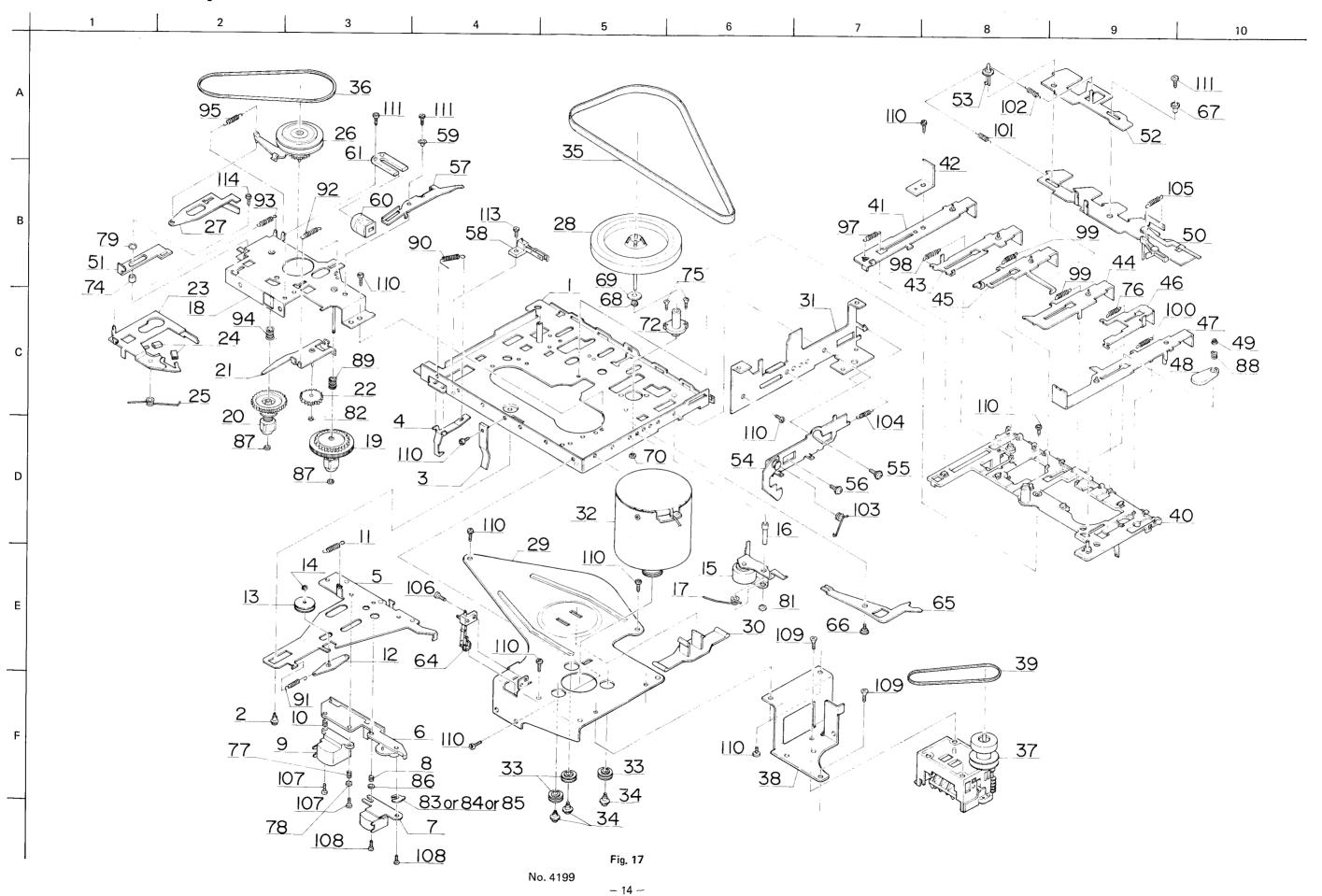
| Step | Item | Adjustment | Adjusting point | Standard value | Remarks | | | |
|------|-----------------------------------|--|-----------------|---|---|--|--|--|
| 1* | Adjusting playback level | | | | | | | |
| 2* | Playback frequency response | Playback test tape VTT-675N (1 kHz, 10 kHz) for following adjustment. 1. Connect/Disconnect C103 or C104 so that 10 kHz signal and 1 kHz signal gains become flat response. | | Reference frequency: 1 kHz 0 ± 2 dB at 10 kHz | NR SYSTEM: OFF TAPE SELECT: SF/NORM | | | |
| 3* | Peak level indicator | Set the cassette deck to its recording mode. Apply a 1 kHz, approx10 dBs signal to the LINE IN terminals. Adjust the recording level controls until the signal is available at -8 dBs at the LINE OUT terminals. Connect/Disconnect R146 or R147 until the peak level indicator becomes 0 dB. | | 0 dB | Perform the adjustment when the parts are replaced. | | | |

| Step | Item | Adjustment | Adjusting point | Standard value | Remarks |
|------|---|--|-----------------|---|---|
| 4* | Checking record/ playback frequency response | signals at an input level of 0 dB to —20 dB. Play back the tape. Check to see that the 50 Hz and 12.5 kHz signal output deviations fall within the standard range, using the 1 kHz signal output as a reference. Increase in high frequencies (with a small bias current) Decrease in high frequencies (with a larger bias current) Decrease in high frequencies (with a larger bias current) 1. Apply a 1 kHz, approx. —10 dB signal to the LINE IN terminals. 203 | | Reference frequency; 1 kHz 0 ± 3 dB at 50 Hz 0 ± 3 dB at 12.5 kHz | This checking should be performed for normal tapes and for both right and left channels. 1. Bias current adjustment for a cassette deck should generally be performed referring to the record/playback frequency response. This is because the frequency response of a cassette deck depends more greatly upon the bias current than does that of an open reel deck. 2. If the bias current is not properly adjusted, the record and playback characteristics become as shown left. |
| 5 | Adjusting recording level | | | 0 dB | The level difference between left and right channels for SF/NORM tape and chrome tape should be less than 1 dB. Perform the adjustment using a normal tape, level difference between recording and playback for SA/CrO2 and metal tapes, should be less than 1.5 dB, and that between left and right channels should also be less than 1 dB. |
| 6 | Checking record/ playback distortion | Record a 1 kHz, -8 dBs signal to LINE IN terminals and perform recording with the peak level indicator becomes to 0 dB. Play back the recorded part. Check the output with a distortion meter to see if the value conforms to the standard value. | | SF/NORM tape; Less than 2.5% SA/CrO ₂ tape; Less than 3% Metal tape; Less than 2% | Be sure to perform this adjustment following bias current and recording level adjustment. |
| | Checking signal to noise ratio in recording/ playback | Record a 1 kHz, 0 dB signal. Stop the input by disconnecting from the terminal to perform nonsignal recording. Play back the recorded part. Measure the 0 dB recording output and the non-signal recording output for comparison using an electronic voltmeter. Check to see if the value conforms to the standard value. | | SF/NORM, SA/CrO2 and Metal tapes; More than 42 dB | Apply an output (-72 dBs) to the MIC terminals with the recording level controls set to maximum so that the peak level indicator becomes 0 dB. |
| | Checking erasing coefficient | Apply a 1 kHz signal to the LINE IN terminals. Adjust the recording level controls until the peak level indicator becomes 0 dB. Perform recording with the signal enhanced by 20 dB. Erase a part of the recording. Measure the output difference between the erased part and nonerased part to compare with an electronic voltmeter. | | More than 65 dB | For the measuring, connect a band pass filter between the deck and the electronic voltmeter. Input (1kHz 0VU + 20dB) Tape deck (recording, erasing) Band pass filter Voltmeter (1kHz) |
| | Checking Auto stop | Hold less than 1 ± 0.5 mm gap to the mag | net from the | e hall IC. | , |

Enclosure Assembly and Electrical Parts (Except P.W. Board Parts)



Mechanical Component Parts



Enclosure Assembly and Electrical Parts List A parts are safety assurance parts.

(Except P.W. Board Parts)

When replacing those parts, make sure to use the specified one.

| Ref. No. | Parts No. | Parts Name | Remarks | Q'ty |
|----------|---|--|-------------------------------|------|
| 1 | VJD3276-001 | Mecha. Plate | | 1 |
| 2 | VJD2147-001 | LED Holder | | 1 |
| 3 | VJD4500-001 | LED Plate | | 1 |
| 4 | VXP4133-001 | Push Button | Reset | 1 |
| 5 | VKW3001-065 | Compression Spring | | 1 |
| 6 | VXP4100-002 | Push Button | Power | 1 |
| 7 | VXP4120-001 | " | Function | 3 |
| 8,21,22) | ZCKDD2Y-CBF | Front Plate Ass'y | | [1 |
| 8 | VJC1169-001 | Front Plate | | 1 |
| 9 | VKL3300-001 | Button Bracket | | 1 |
| 10 | VXP3066-001 | Mecha. Button | Rec. | 1 |
| 11 | " -002 | " | Stop | 1 |
| 12 | " -003 | " | | 4 |
| 13 | VKH4321-002 | Button Shaft | | 1 |
| (14-17) | ZCKDD2Y-CCA | Cassette Holder Ass'y | | 1 |
| 14 | VJT2053-001 | Cassette Holder | | 1 |
| 15 | VJD4378-003 | Mark | | 1 |
| 16 | VKY4180-004 | Spring | | 2 |
| 17 | VKY4211-002 | Cassette Spring | | 1 |
| 18 | VKW4285-001 | Holder Spring | | 1 |
| 19 | VJD3277-001 | Button Escutcheon | | 1 |
| 20 | VJT3068-001 | Cassette Lid | | 1 |
| 21 | VJK3175-001 | Finder | | 1 |
| 22 | VJD4473-001 | Escutcheon | | 1 |
| 23 | VKY4222-001 | Button Spring | | 1 |
| 24 | VXL4151-001 | Knob (L) | Input | 1 |
| 25 | VXL4150-001 | " (R) | | 1 |
| 26 | VJC2045-001 | Bottom Cover | | 1 |
| 27 | VJF4003-002 | Foot | | 4 |
| 28 | VJC1170-001 | Top Cover | | 1 |
| 29 | VYN2084-002PA | Name Plate | KD-D2A | 1 |
| 20 | " -001PA | " | KD-D2B | 1 |
| | " -003PA | " | KD-D2C | 1 |
| | " -004PA | " | KD-D2E | 1 |
| | " -005PA | " | KD-D2J | 1 |
| | " -006PA | " | KD-D2U | 1 |
| 30 | VYH1122-001 | Amp Chassis | | 1 |
| 31 | VKZ4001-011 | Wire Holder | | 2 |
| 32 | VKY4202-001 | Earth Lug | Top Cover | 1 |
| 33 | VKY4225-001 | Earth Spring | Bottom | 1 |
| 34 | VKS3140-001 | Rec. Arm | | 1 |
| 35 | VKW4284-001 | Rec. Spring | | 1_ |
| | ↑ QMP2560-200 | Power Cord | KD-D2A | 1 |
| _ | <u>↑</u> QMP9017-008BS | " | KD-D2B | 1 |
| _ | ∆ QMP1200-200 | " | KD-D2C/J | 1 |
| _ | ∆ QMP3900-200 | " | KD-D2E | 1 |
| | ↑ QMP7600-200 | " | KD-D2U | 1 |
| | <u>∆</u> QHS3876-252 | Strain Relief | KD-D2A/E | 1 |
| _ | <u>↑</u> '' -252BS | " | KD-D2B | 1 |
| - | <u>N</u> QHS3056-252 | " | KD-D2C/J/U | 1 |
| _ | ∆ QSS2325-102 | Slide Switch | Voltage Selector KD-D2A/C/E/J | 1 |
| 20 / | | " | " KD-D2B | 1 |
| | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | T. Control of the Con | | 1 ' |

| Ref. No. | Parts No. | Parts Name | Remarks | Q'ty |
|-------------|---------------------|---------------------|---------------------------|------|
| 39 / | VTP54C3-011B | Power Transformer | KD-D2A/E | 1 |
| 7 | <u>^</u> ′′ -011BBS | " | KD-D2B | 1 |
| 7 | ∆ ′′ -012B | " | KD-D2C/J | 1 |
| | ŶVTP54U3-011B | " | KD-D2U | 1 |
| 40 | VKL4911-001 | Transformer Bracket | | 1 1 |
| _ | ∆ QSP0219-061 | Push Switch | Power SW. | 1 |
| 42 | VKZ4150-001 | Special Nut | Headphone & Mic. | 3 |
| 44 | T30483-00C | Slide Switch | Muting | 1 |
| 45 | VKL5015-001 | SW. Bracket | KD-D2U | 1 |
| | ∆QHX2075-001 | Wire Clamp | | 4 |
| 47 | VKH4322-001 | Bearing | | 1 |
| 48 | VYH4460-001 | Gear | | 1 1 |
| 49 | *VMA4129-001 | Shield Plate | | 1 |
| 60 | *Q03093-613 | Washer | | 5 |
| 62 | SDST2604Z | Screw | Mecha. Plate | 4 |
| 63 | LPSP3006VS | " | Switch | 2 |
| 64 | SBSF3010C | Tap. Screw | Mecha. | 5 |
| 65 | SBSF3010Z | " | Button Spring | 3 |
| 66 | SBSF3012V | " | Main P.W. Board | 5 |
| 67 | SDSB4014R | " | Top Cover | 4 |
| 68 | SDSF3010Z | " | Front Plate | 2 |
| 69 | SDSF3010Z | - | Foot | 6 |
| 70 | SSSP2604Z | Screw | Button Bracket | 2 |
| 71 | SSSP2606Z | Screw | " | 4 |
| 72 | SSSF3012Z | Tap. Screw | Front Plate | 3 |
| 73 | SSSP2606R | Screw | Button Escutcheon | 2 |
| 74 75 | RCSA12000 | C. Ring | Cassette Holder | 1 |
| 75 | SDSF3010R | Tap. Screw | Mecha. | 1 |
| 76 | DPSP4020ZS | Screw | for Power Transformer | 2 |
| 77 70 | SBSF3010V | | for P.W.B. (Power Supply) | 1 |
| 78 | LPSP2604Z | " | for Slide Switch | 4 |

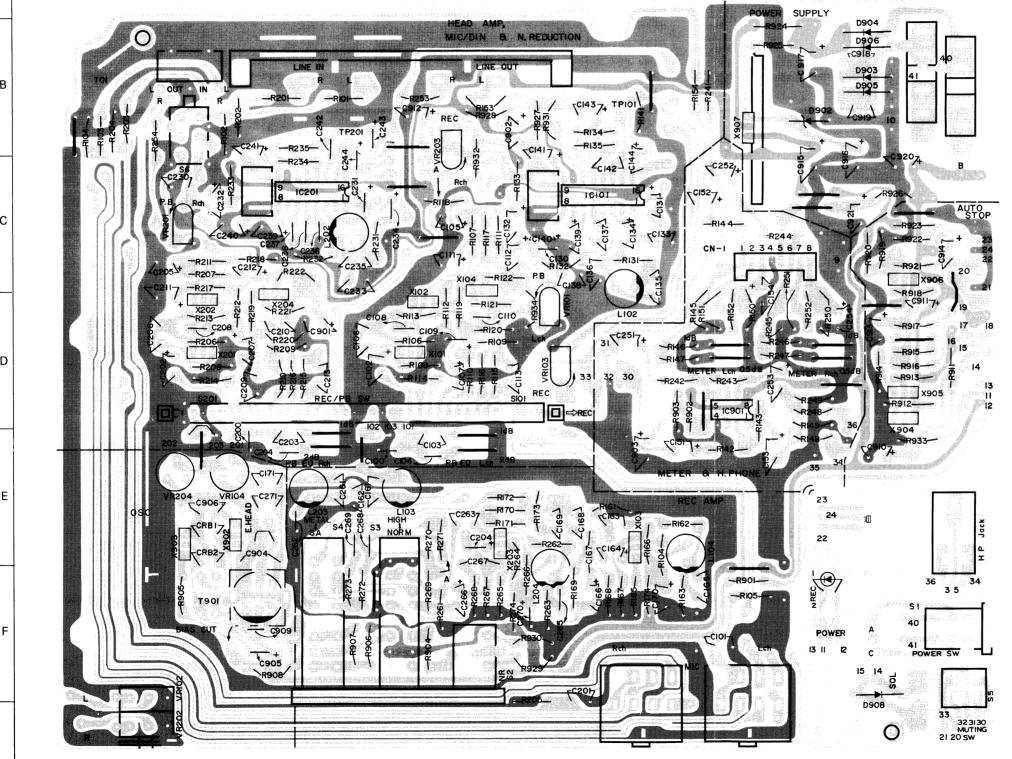
Mechanical Component Parts List

| Ref. No. | Parts No. | Parts Name | Remarks | Q'ty |
|----------|--------------------------|-----------------------------------|---|------|
| 1 | 170001101ZT | Mecha. Chassis Ass'y | | 1 |
| 2 | 17000310T | Head Panel Collar Screw | | 1 |
| 3 | 17000115T | Pack Spring | | 1 |
| 4 | 15100201T | Rec. Safety Lever | | 1 |
| 5 | 17000301T | Head Panel | | 1 |
| 6 | 17000306T | Head Base | | 1 |
| 7 | VGH0421-003 | R/P Head | | 1 |
| 8 | 9400312T | Head Spring | R/P Head | 1 |
| 9 | VGH0212-103 | E. Head | | 1 |
| 10 | 9400312T | Head Spring | E. Head | 1 |
| 11 | 17000307T | RC Spring | Play Button — Head Panel | 1 |
| 12 | 17000312ZT | Take-up Roller Plate Ass'y | | 1 |
| 13 | 17000321ZT | Take-up Roller Ass'y | | 1 |
| 14 | 12001503T | Polyslider Washer | Ø 1.2, Ø 3, t 0.25 | 1 |
| 15 | 15100491ZT | Pinch Roller Ass'y | | 1 |
| 16 | 15100403T | Pinch Roller Arm Sleeve | | 1 |
| 17 | 17000402T | Pinch Roller Spring | | 1 1 |
| 18 | 17000581ZT | Reel Disk BKT Ass'y | | 1 |
| 19 | 17000592ZT | Take-up Reel Ass'y | | 1 |
| 20 | 17000593ZT | Supply Reel Ass'y | | 1 |
| 21 | 17000582ZT | F.F. Gear Plate Ass'y F.F. Gear | | 1 |
| 22 | 17000516T | | | 1 |
| 23 | 17000583ZT | Main Plate Ass'y Brake Shoe | | 1 |
| 24 25 | 11991603T | | | 2 |
| | 17000514T | Brake Arm Spring | | + |
| 26 | 17000692ZT | RF. Clutch Ass'y Rew. SP Plate | | 1 |
| 27 | 17000505T | l . | | 1 |
| 28 | 17000705T | Flywheel Ass'y | | 1 |
| 29 30 | 17000703T 17100504T | Flywheel Bracket Thrust Holder | | 1 1 |
| 31 | 171003041 17001120T | Eject Bracket | | 1 |
| 32 | 170011201 170010205ZT | Motor Ass'y | MMT-6B2HD Motor, 17001007T Motor Pulley | 1 se |
| | | | Screw x 2 | |
| 33 | 5880910T | Rubber Cushion | | 3 |
| 34 | 12001201T | Collar Screw (S) | | 3 |
| 35 | 17001009T | Main Belt | | _1 |
| 36 | 17001010T | RF. Belt | | 1 |
| 37 | VKC5144-001T | Counter | | 1 |
| 38 | 17001303T | Counter Bracket | | 1 |
| 39 | 11431602T | Counter Belt | | 1 |
| 40 | 17000945T | Push Button Base | | 1 |
| 41 | 170009111ZT | Rec. Button Lever Ass'y | | 1 |
| 42 | 17000205T | Rec. Bracket | | 1 |
| 43 | 170009112ZT | Play Button Lever Ass'y | | 1 |
| 44 | 170009113ZT | FF Button Lever Ass'y | | 1 |
| 45 | 170009114ZT | Rew. Button Lever Ass'y | | 1 |
| 46 | 17000982T | Stop Button Lever | | 1 |
| 47 | 170009116ZT | Pause Button Lever Ass'y | | 1 |
| 48 | 12221702T | Pause Lever | | 1 |
| 49 | 17000935T | Pause Lever Stopper | | 1 |
| 50 | 170009115ZT | Lock Plate Ass'y | | 1 1 |
| 51 | 17000807T | SW. Lever Ass'y | | 1 |
| 52 | 170009319T | Timing Cam | | 1 |
| 53 | 17000920T | Lock Plate Boss | | 1 |
| 54 | 170011101ZT | Eject Slide Lever Ass'y | | 1 |
| 55 | 17001111T | Collar Screw | | 1 |

| Ref. No. | Parts No. | Parts Name | Remarks | Q'ty |
|------------|----------------------------|------------------------|---|-------------|
| 56 | 17000310T | Collar Screw | | 1 |
| 57 | 170009323T | Auto Kick Lever | | li |
| 58 | MSW-1230-NB/C | SW Ass'y | | 1 |
| 59 | 17001202T | Auto Kick Lever Collar | | 1 |
| 60 | 17001506T | Coil | | 1 |
| 61 | 17001501T | Core | | 1 |
| 64 | MSW1480T | SW. Ass'y | Pause | 1 |
| 65 | 17001201T | Pause Arm Lever | | 1 |
| 66 | 17001202T | Collar Screw | | 1 |
| 67 | 17000808T | Collar | | 1 |
| 68 | 17000710T | Washer | | 1 |
| 69 | 11011106T | " | | 1 |
| 70 | 7131108T | " | | 1 |
| 71 | MSW-1230-NBK | Switch | | 1 |
| 72 | 17000113T | FL Bloch | | 1 |
| 74 | 17000808T | Collar | for SW lever Ass'y | 1 |
| 75 | SSSP2004Z | Screw | for FL Bloch | 2 |
| 76 | 170009331T | Spring | Stop Button Lever | 1 |
| 77 | VKW3001-086 | Spring | E. Head | 1 |
| 78 | WSS2000N | Washer | " | 1 |
| 79 80 | WNS2600N WSS2000N | ,, | SW. Lever Ass'y | 1 |
| 81 | | ,, | | 1 |
| 82 | 17150401T | ,, | Pinch Roller | 1 |
| 83 | 12001503T 13270412AT | | Ø 1.2, Ø 3, t 0.25 | 1 |
| 84 | 13270412A1 13270412BT | U. Washer | Head Adjust | 2 |
| 85 | 1327041261 13270412CT | ,, | " | 2 |
| 86 | 15601501T | Markey | | 2 |
| 87 | 16100604T | Washer | R/P Head Ø 2.1, Ø 5, t 0.4 | 1 |
| 88 | 13231701T | Spring | Ø 1.6, Ø 3.8, t 0.3 Pause Lever | 2 |
| 89 | 13301303T | " | | 1 |
| 90 | 17000201T | ,, | Take-up Back Tension Ø 1.6, Ø 3.8, t 0.3 Rec. Safety Lever | 1 |
| 91 | 17000308T | " | Head Panel – Take-up Roller | 1 |
| 92 | 17000512T | " | FF Gear Plate | 1 |
| 93 | 17000513T | " | Main Plate | 1 |
| 94 | 17000518T | " | Supply Back Tension | 1 |
| 95 | 17000605T | " | RF. Clutch Arm | 1 |
| 96 | VKW3001-036 | " | Tit : Oldtell Allil | 1 |
| 97 | 13340213T | " | Rec. | 1 |
| 98 | 170009330T | " | Play | 1 1 |
| 99 | 17000933T | " | FF, Rew. | 1 1 |
| 100 | 17000934T | " | Pause | 2 1 |
| 101 | 170009322T | ,, | Main | |
| 102 | 170009320T | " | Timing | 1 1 |
| 103 | 17001122T | " | Lock Lever | 1 1 |
| 104 | 17001107T | " | Eject Slide Lever | 1 1 |
| 105 | 17001611T | " | Auto Lever | 1 |
| 106 | SDSP2004Z | Screw | SW. Ass'y | <u> </u> |
| 107 | SPSP2007Z | " | E. Head | 1 2 |
| 108 | SPSX2007Z | PM. Screw | R/P Head | 2 |
| 109 | SSSB2606Z | Screw | Counter | 2 |
| 110 | 20PZ26040T | Tap. Screw | Pack Spring x 1, Reel Disk Bracket x 2, Eject | 13 |
| 111 | | | Bracket x 1, Flywheel Bracket x 4, Counter Bracket x 2, Rec. Bracket x 1, Push Button Base x 1. | 13 |
| 111 | 20PZ26060T | ,, | Core x 1, Auto Kick Lever Collar x 1, Collar x 1 | 3 |
| 112 | SPSP2012Z | Screw | | 1 |
| 113 114 | 20PZ26050ZT 20PZ26100ZT | " | SW. Ass'y | 1 |
| 114 | 20122010021 | | SW. Lever Ass'y | 1 |

P.W. Board Parts (Main amplifier)

| | 1 | 2 | 3 | 4 | 5 | | 6 | | | | 7 | | | | 8 | | | | 9 | | | | 10 | |
|---|---|---|---|---|---|-------|--------------|------|------|------|------|------|------|------|------|---|------|------|-----|------|------|------|------|-----|
| | | | | | | | | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | | | | | | IC101 | E. Voltmeter | 10.3 | 10.3 | 10.2 | 10.3 | 10.5 | 10.5 | 10.3 | 10.4 | 0 | 10.4 | 20.9 | 1.5 | 10.4 | 10.6 | 10.6 | 10.6 | 1.2 |
| | | | | | | 201 | | 6.5 | 6.5 | 10.3 | 6.5 | 10.3 | 10.3 | 9.8 | 10.3 | 0 | 10.3 | 20.9 | 1.5 | 10.3 | 10.3 | 10.3 | 10.3 | 1.2 |
| Α | | | | | | 10001 | E. Voltmeter | 10.2 | 10.2 | 10.2 | 0 | 10.2 | 10.2 | 10.2 | 20.9 | | | | | | | | | |
| | | | | | | IC901 | C. Tester | 10.2 | 10.2 | 9.0 | 0 | 9.0 | 10.2 | 10.2 | 20.9 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |



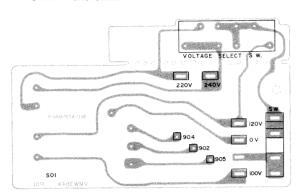
| | E. | Voltmet | er | | C. Tester | | | | | |
|-------------|------|---------|------|------|-----------|------|--|--|--|--|
| | E | С | В | Е | С | В | | | | |
| X101 201 | 0.55 | 2.8 | 1.1 | 0.5 | 2.4 | 0.75 | | | | |
| X102 202 | 2.2 | 6.3 | 2.8 | 2.2 | 6.0 | 2.4 | | | | |
| X103 203 | 0.8 | 8.0 | 1.4 | 0.57 | 7.2 | 0.8 | | | | |
| X104 | S | G | D | S | G | D | | | | |
| 204 | 6.3 | 0 | 6.3 | 6.3 | 0 | 6.3 | | | | |
| X902 | 0.42 | 7.4 | 0.7 | 0.43 | 7.4 | 0.65 | | | | |
| X903 | 0.42 | 7.4 | 0.7 | 0.43 | 7.4 | 0.65 | | | | |
| X904 | 0 | 12.7 | 0.1 | 0 | 12.7 | 0.1 | | | | |
| X905 | 0 | 0.1 | 0.7 | 0 | 0.1 | 0.7 | | | | |
| X906 | 20.9 | 3.0 | 20.5 | 20.9 | 2.3 | 20.5 | | | | |
| X907 | 20.9 | 25.8 | 21.6 | 20.9 | 25.8 | 21.6 | | | | |

Voltage values are measured by the following meter without input signal at normal position at Recordeng mode.

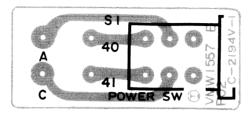
- E. Voltmeter = Electronic Voltmeter C. Tester = = Circuit Tester (20 k Ω impedance)

Other P.W. Board Parts

Power Transformer –



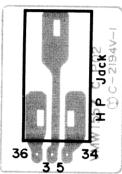
- Power Switch -



- LED --



Headphone jack –



- Hall IC -

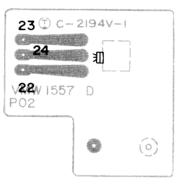


Fig. 19

Main P.W. Board Parts List

♠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

| Ref. No. | \triangle | Parts No. | | Parts Name | | Remarks | | |
|---|-------------|-----------|--------|------------------|----------------|---------|----|--|
| | | VMW155 | 7-004 | P.W. Board Ass'y | | | 1 | |
| R102, 202, 115, 215 | | QRD141J | I-183S | C. Resistor | 18 kΩ | 1/4 W | 4 | |
| R916, 920 | | " | -333S | " | 33 kΩ | " | 2 | |
| R103, 203, 131, 231 | | " | -102S | " | 1 kΩ | " | 4 | |
| R104, 204, 105, 205, 164, 264, 168, 268 | | " | -223S | " | 22 kΩ | " | 8 | |
| R106, 206 | | " | -104S | " | 100 kΩ | " | 2 | |
| R107, 207, 152, 252, 161, 261, | | " | -104S | " | 100 kΩ | " | 11 | |
| 167, 267, 931, 172, 272 | | | | | 100 1102 | | '' | |
| R108, 208, | | " | -472S | " | 4.7 kΩ | ,, | 2 | |
| R109, 209, 165, 265, 913, 923 | | " | -152S | " | 1.5 kΩ | " | 6 | |
| R110, 210 | | " | -221S | " | 220 Ω | ,, | 2 | |
| R111, 211, 146, 246, 914 | | " | -563S | " | 56 kΩ | " | 5 | |
| R170, 270 | | " | -184S | " | 180 kΩ | ,, | 2 | |
| R112, 212 | | " | -224S | " | 220 kΩ | ,, | 2 | |
| R114, 214, 162, 262 | İ | " | -121S | " | 120 Ω | " | 4 | |
| R144, 244 | | " | -273S | ,, | 27 kΩ | " | 2 | |
| R117, 217, 145, 245, 150, 250, 927 | | " | -123S | " | 12 kΩ | ,, | 7 | |
| R922 | | QRD141J | -562S | " | 5.6 k Ω | 1/4 W | 1 | |

| Ref. No. | 1 | Parts No. | Parts Name | Remarks | Q'ty |
|---|-----------------|------------------------------|---|--------------|------|
| R118, 218, 134, 234, 121, 221, 149, 249, 153, 253, 154, 254 | | QRD141J-332S | C. Resistor | 3.3 kΩ 1/4 W | 10 |
| R119, 219 | | " 1E1C | ,, | 1=- | |
| R120, 220, 174, 274, 932 | | -1919 | ,,, | 150 Ω " | 2 |
| R116, 216, 930 | | " -222S | ,, | 2.2 kΩ " | 5 |
| R122, 222 | | " -392S | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 3.9 kΩ " | 3 |
| R132, 232 | + | QRD147J-155S QRD141J-680S | " | 1.5 MΩ " | 2 |
| R133, 233 | | QRD147J-105S | " | 68 Ω " | 2 |
| R135, 235 | | QRD141J-182S | ,, | 1.5 ΜΩ " | 2 |
| R141, 241, 921 | | " -682S | ,, | 1.8 kΩ " | 2 |
| R142, 242, 917, 101, 201, 171, | | -0023 '' -473S | ,, | 6.8 kΩ " | 3 |
| 271, 173, 273 | | 4733 | | 47 kΩ " | 9 |
| R143, 243 | | " -154S | " | 150 kΩ " | 2 |
| R147, 247 | | " -124S | " | 120 kΩ " | 2 |
| R148, 248, 163, 263 | | " -151S | " | 150 Ω " | 4 |
| R151, 251 | | " -153S | " | 15 kΩ " | 2 |
| R166, 266 | | " -125S | " | 1.2 MΩ " | 2 |
| R113, 213 | | " -823S | " | 82 kΩ " | 2 |
| R173, 273 | | " -473S | " | 47 kΩ " | 2 |
| R901 | | QRD147J-272S | " | 2.7 kΩ " | 1 |
| R902, 903, 169, 269 | | QRD141J-683S | " | 68 kΩ " | 4 |
| R904 | | " -154S | " | 150 Ω " | 1 |
| R905 | \triangle | QRD149J-100S | Fail Safety Resistor | 10 Ω " | 1 |
| R906 | $ \triangle $ | " -820S | " | 82 Ω " | 1 |
| R907 | | QRG016J-151 | " | 150 Ω " | 1 |
| R908 | | QRD126K-220 | ,, | 22 Ω " | 1 |
| R909, 910 | | QRD141J-393S | C. Resistor | 39 kΩ " | 2 |
| R911 | \triangle | QRG019J-680 | OMF Resistor | 68 Ω 1 W | 1 |
| R912 | | QRD121J-2R2 | C. Resistor | 2.2 Ω ½ W | 2 |
| R915 | | QRD141J-103S | " | 10 kΩ 1/4 W | 1 |
| R919 | | " -225S | " | 2.2 MΩ " | |
| R924 | Λ | QRD129J-4R7 | Fail Safety Resistor | 4.7 Ω 1/2 W | 1 |
| R925 | \triangle | QRD149J-102S | " | 1 kΩ 1/4 W | 1 |
| R926 | \triangle | QRD129J-270 | " | 27 Ω " | 1 1 |
| R928, 918 | | QRD141J-822S | C. Resistor | 8.2 kΩ 1/4 W | 2 |
| R929 | | QRD147J-561S | " | 560 Ω " | 1 1 |
| R933 | | " -272S | " | 2.7 kΩ " | 1 1 |
| R934 | | " -334S | " | 330 kΩ " | 1 |
| | | QWY123-019 | Bus Wire | | 25 |
| CRB1, CRB2 | | EXR-P472M393W | C.R. Block | | 2 |
| C100, 200 | | QCS11HJ-331 | C. Capacitor | 330 pF 50 V | 2 |
| C101, 201 | | " -241 | " | 240 pF " | 2 2 |
| C102, 202 | | QEB41EM-106M | E. Capacitor (Low Leak) | 10 μF 25 V | 2 |
| C103, 203 | | QCS11HJ-181 | C. Capacitor | 180 pF 50 V | 2 |
| C104, 204 | | " -361 | ,,, | 360 pF " | 2 |
| C105, 205, 111, 211, 170, 270 | | QET41ER-476N | E. Capacitor | 47 μF 25 V | 6 |
| C106, 206, 162, 262 | | QCS11HJ-391 | C. Capacitor | 390 pF 50 V | 4 |
| 2107, 207, 109, 209, 913 | | QET41AR-107N | E. Capacitor | 100 μF 10 V | 5 |
| 2108, 208, 130, 230 | | QCS11HJ-680 | C. Capacitor | 68 pF 50 V | 4 |
| C110, 210 | | QFM41HJ-153 | M. Capacitor | 0.015 μF " | 2 |
| 2112, 212, 144, 244, 903, 905 | | QET41HR-475N | E. Capacitor | 4.7 μF " | 6 |
| 2113, 213 | | QCS11HJ-121 | C. Capacitor | 120 pF " | 2 |
| 2131, 231, 132, 232 | - 1 | QEB41HM-105M | E. Capacitor (Low Leak) | 1μF " | - |

| Ref. No. | \triangle | Parts No. | Parts Name | Remarks | Q'ty |
|--------------------------------|-------------|--------------|---------------------------------------|------------------------------|------|
| C133, 233 | | QFM41HJ-103 | M. Capacitor | 0.01 μF " | 2 |
| C134, 234, 151, 251, 164, 264, | | QET41HR-105N | E. Capacitor | 1 μF " | 8 |
| 166, 266 | | | · | | |
| C135, 235 | | QCS11HJ-471 | C. Capacitor | 470 pF " | 2 |
| C136, 236, 163, 263 | | QFM41HJ-472 | M.Capacitor | 0.0047 μF " | 4 |
| C137, 237 | | " -222 | " | 0.0022 μF " | 2 |
| C138, 238 | - | " -273 | " | 0.027 μF " | 2 |
| C139, 239 | | QEB41HM-334M | E. Capacitor (Low Leak) | 0.33 μF " | 2 |
| C140, 240 | | " -475M | ", | 4.7 μF " | 2 |
| C141, 241 | | QET41CR-227N | E. Capacitor | 220 μF 16 V | 2 |
| C142, 242 | | QFM41HJ-332 | M. Capacitor | 0.0033 μF 50 V | 2 |
| C143, 243 | _ | QET41HR-335N | E. Capacitor | 3.3 μF " | 2 |
| C143, 243 C152, 252 | | " -104N | L. Capacitoi | 0.1 μF " | 2 |
| 1 | | QET41CR-476N | ,, | 47 μF 16 V | 3 |
| C153, 253, 921 | | QET41ER-226N | ,, | 220 μF 25 V | 2 |
| C154, 254 | | | | ' | 4 |
| C161, 261 | + | QCS12HJ-151 | C. Capacitor | 150 pF 500 V | 2 |
| C167, 267 | 1 | QFM41HJ-154 | M. Capacitor | 0.15 μF 50 V | 2 |
| C168, 268 | | QCS11HJ-561 | C. Capacitor | 300 pi | 2 |
| C171, 271 | | QCY12HK-221 | | 220 pF 500 V | 2 |
| C901 | | QET41HR-335N | E. Capacitor | 3.3 μF 50 V | 2 |
| C902, 914 | | QET41HR-106N | E. Capacitor | 10 μF " | 2 |
| C904 | | QFP82XJ-152 | PP Capacitor | 0.0015 μF | 1 |
| C906 | | QFM41HJ-153 | M. Capacitor | 0.015 μF 50 V | 1 |
| C909 | | QFP82AJ-103 | PP Capacitor | 0.01 μF | 1 |
| C910 | | QET41ER-477N | E.Capacitor | 470 μF 25 V | 1 |
| C915 | \triangle | QET41ER-337N | " | 330 μF " | 1 |
| C916 | 12.3 | " -227N | ,, | 220 μF " | 1 |
| C917 | \triangle | QET41VR-477N | , , , , , , , , , , , , , , , , , , , | 470 μF 35 V | 1 |
| C918, 919 | 12.5 | QCF11HP-103 | ,, | 0.01 μF 500 V | 2 |
| C920 | \triangle | QET41ER-477N | " | 470 μF 25 V | 1 |
| VR101, 201 | 2:3 | QVP8A0B-054 | V. Resistor | 50 k Ω Playback Level | 2 |
| VR102, 202 | | QVL5A3A-054F | " | 50 kΩ Input | 1 |
| VR103, 203 | | QVP8A0B-024 | V. Resistor | 20 kΩ REC Level | 1 |
| VR104, 204 | | QVP4A0B-224 | v. 11esistoi | $200 \text{ k}\Omega$ Bias | 2 2 |
| 711104, 204 | i i | TAZ336499-04 | Volume Lug | | |
| L102, 202, 104, 204 | | VQP0001-562 | | Input | 1 |
| L103, 203 | | " -183 | Inductor | | 4 |
| 1 2103, 203 | | QMV5005-008 | C | | 2 |
| T901 | | | Connector | | 1 |
| 1901 | | VQH1009-018 | Osc. Coil | | 1 |
| 60.0.4 | - | VYH4514-002 | Shield Case | | 1 |
| S2, 3, 4 | | QSP0239-115 | Push SW. Ass'y | Tape Select NR | 1 |
| | | VMJ3004-002 | Jack Ass'y | PIN | 1 |
| 001.00 | | QMC9014-006 | DIN Socket | | 1 |
| S6-1, 6-2 | | QSP2210-061 | Push Switch | DIN | 1 |
| S101, 201 | | QSSC201-101T | Slide Switch | R/P | 1 |
| | | VMZ0005-001 | Post Pin | | 1 |
| | | E43727-002 | Wrapping Tab | | 8 |
| | | VKL5002-001 | Heat Sink | X907 | 1 |
| | | LPSP3008ZS | Screw | | 1 |
| | | QMS6313-007 | Mic. Jack Ass'y | | 2 |
| | | VMA4127-001 | Shield Plate | | 1 |

| Ref. No. | \triangle | Parts No. | Parts Name | Remarks | Q'ty |
|-------------------------------|-------------|----------------|--------------------|-----------------|------|
| X101, 201, 102, 202, 103, 203 | | 2SC1344(E,F) | Si. Transistor | or 2SC1327(T,U) | 6 |
| X104, 204 | | 2SK246(GR,BL) | FET | Toshiba | 2 |
| X902, 903 | | 2SC2274(E,F) | Si. Transistor | or 2SC1318(Q,R) | 2 |
| X904 | | 2SD471(LA,KA) | " | or 2SC1317(R,S) | 1 |
| X905 | | 2SC945A(PA,KA) | " | or 2SC1684(R,S) | 1 |
| X906 | | 2SA733A (P,K) | " | or 2SA564(R,S) | 1 |
| X907 | \triangle | 2SC2209(Q,R) | " | | 1 1 |
| IC101, 201 | | AN7362N | Integrated Circuit | | 2 |
| IC901 | | AN6552 | " | | 1 |
| D902 | \triangle | RD20E(B3) | Zener Diode | | 1 |
| D903, 904 | | DS135DKB3 | Diode | | 2 |
| D905, 906 | | " | " | | 2 |

Other P.W. Board Parts List

 \triangle parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

| Ref. No. | \triangle | Parts No. | Parts Name | Remarks | Q'ty |
|---------------------|-------------------------|---------------|-------------------|----------------------------------|------------------|
| [Power Transformer] | | | | | |
| | | VMW3549-002 | P.W. Board | | 1 |
| | \triangle | QSS2325-102 | Slide Switch | V. Select KD-D2A/C/E/J | 1 |
| | - | " -102BS | " | " KD-D2B | 1 |
| | $ \triangle $ | VTP54C3-011B | Power Transformer | KD-D2A/E | 1 |
| | | " -011BBS | " | KD-D2B | 1 |
| | İ | " -012B | " | KD-D2C/J | 1 |
| | | VTP54U3-011B | " | KD-D2U | 1 |
| | | E40130-001 | Tab | KD-D2A/B/C/E/J | 2 |
| | | E43727-002 | " | " | 3 |
| | | TAW000504-01 | FG Connector | KD-D2U | 2 3 2 2 |
| | | QMF51S2-R50 | Fuse | ", F ₁ F ₂ | |
| | | TAZ000331-02 | Fuse Holder | " | 4 |
| | | VND4003-023 | Fuse Label | | 1 |
| | | VMA4129-001 | Shield Plate | KD-D2J, J01 | 1 |
| Power Switch] | | | | | |
| | | VMW1557-001E | P.W. Board | | 1 |
| | ĺ | QSP1110-305BS | Push Switch | | 1 |
| | | LPSP3006ZS | Screw | | 2 |
| [LED] | | | | | |
| | | VMW1557-001B | P.W. Board | | 1 |
| LED 1 | \triangle | SLP-155B-01V | LED | REC. | 1 |
| LED 2 | $\overline{\mathbb{A}}$ | SLP-155B-01V | " | Power ON | li |
| LED Meter] | - 1- | | | | <u> </u> |
| R191, 291 | | QRD141J-472S | C. Resistor | 4.7 kΩ ¼ W | |
| C191, 291 | | QET41HR-105N | | | 2 |
| C990 | | QET41ER-336N | E. Capacitor | 1 μF 50 V | 2 |
| 6990 | $ \Lambda $ | LT-1011 | LED Module | 33 μF 25 V | 1 1 |
| Di | | L1-1011 | LLD Woddle | | |
| Phone Jack] | | | _ | | |
| | | VMW1557-001C | P.W. Board | | 1 |
| | | QMS6302-112 | Phone Jack Ass'y | | 1 |
| [Hall IC] | | | | | |
| | | VMW1557-001D | P.W. Board | | 1 |
| | | DN6835 | Hall IC | | 1 |
| D908 | | MA150 | Diode | | 1 1 |

Packing

Positions of control and switch knobs at renew packing

Power switch

: OFF

REC level control

MIN

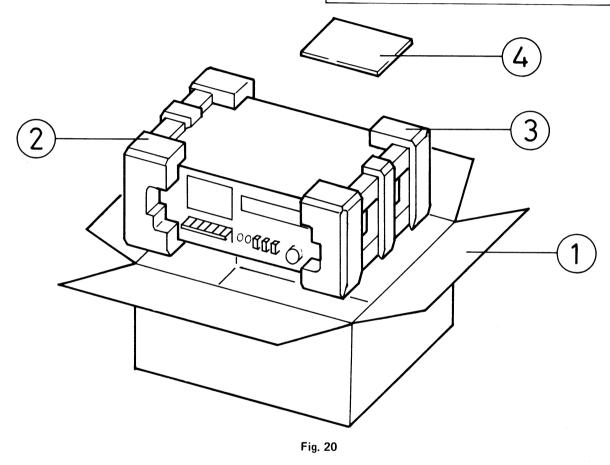
Tape select

: SA/CrO₂

NR SYSTEM

: ANRS/DOLBY B

Mecha. operation buttons: OFF Counter : 000



Packing Material Parts List

| Ref. No. | Parts No. | Parts Name | Remarks | Q'ty |
|----------|---------------|--------------|-------------------------------|-------|
| 1–3 | VDP2084-001A | Carton Ass'y | KD-D2A/B/E/J/U | 1 set |
| 1–3 | VDP2084-003A | " | KD-D2C | 1 set |
| 1 1 | VPD2084-J01 | Carton | KD-D2A/B/E/J/U | 1 |
| 1 | VPD2084-J02 | " | KD-D2C | 1 |
| 2 | VPH2146-001 | Cushion (L) | | 1 |
| 3 | VPH2147-001 | " (R) | | 1 |
| | QPGA060-06005 | Envelope | for Set | 1 |
| 4 | AP4056B-077 | " | for Instruction Book | 1 |
| | TKS000501-08 | Sheet | for Set | 1 |
| | Q0414H | Vinyl Tie | for Power Cord, Provided Cord | 1 |

Accessories

| Parts No. | Parts Name | Remarks | Q'ty |
|---------------|-----------------------|------------------------------|------|
| VMP0002-00B | Pin Cord | KD-D2A/C/J/U | 1 |
| CN-201B | DIN Cord | KD-D2B/E | 1 1 |
| VYA4001-00A | Head Cleaning Stick | | 1 |
| VNN0077-301 | Instruction Book | KD-D2B/E | 1 |
| VNN0077-901 | " | KD-D2A/C/J/U | 1 |
| BT20013C | Guarantee Certificate | KD-D2B | 1 |
| TJL000443-01 | Seal | Made in Japan, KD-D2B | 1 |
| TLT052401-01 | Warning Label | for Disconnection KD-D2A/B/E | 1 |
| QZL1002-003BS | Warning Label | for 2-pin Power Cord KD-D2B | 1 |
| VNC5004-001 | Mark Sticker | DIN 45 500, KD-D2B/E | 1 |
| VND4016-001 | Metal Sticker | | 1 |
| BT20029B | Warranty Card | KD-D2A | i |
| BT20032B | <i>n</i> . | KD-D2J/U for PX, EES | 1 |
| BT20025D | " | KD-D2C | 1 |
| TLT000505-01 | UL/CSA Caution Label | KD-D2C/J | 3 |
| BT20042 | Special Reply Card | KD-D2J/U | 1 |
| BT20044B | Safety Instruction | KD-D2J | 1 |
| E7795-1 | EP Mark | KD-D2U | 1 |
| V04062-001 | Siemens Plug | KD-D2U | 1 |
| VNC5311-101 | Caution Card | KD-D2U for EES | 1 |
| VN04048-001 | Jack Label | | 1 1 |

